CLAIMS:

1   1.   A method for managing data describing each of a
2   plurality of repetitive motions executed by a plurality
3   of individuals at a plurality of repetitive motion
4   stations located at a plurality of locations, the method
5   comprising the steps of:
6   receiving the data via a network from each of the
7   plurality of stations;
8   recording the data in a data storage device;
9   receiving via the network from a requester at a
10   remote terminal a request for a selected portion of the
11   data; and
12   transmitting via the network to the requester at the
13   remote terminal the selected portion of the data.

1   2.   The method of Claim 1 wherein the requester is
2   at least one of the individuals who executed the
3   repetitive motions, at least one instructor responsible
4   for instructing the individual who executed the
5   repetitive motions, and another individual who has
6   permission to access the data.

1   3.   The method of Claim 1 wherein the network
2   comprises at least one of the Internet, an intranet, a
3   local area network (LAN), a wide area network (WAN), a T1
4   line, and satellite communication.

1   4.   The method of Claim 1 wherein requester is the
2 individual who executed the repetitive motions, the
3 network comprises at least one of the Internet, an
4 intranet, a local area network (LAN), a wide area network
5 (WAN), a T1 line, and satellite communication, and the
6 individual is requesting the data from a computer
7 terminal located at the individual's residential home.

1   5.   The method of Claim 1 wherein the repetitive
2 motions include at least one of a previous motion
3 executed by the individual, a motion template executed by
4 the individual, and a motion generated by an expert.

1   6.   The method of Claim 1 further comprising:
2   designating for a selected individual a model motion
3 to be a motion template for the selected individual;
4   recording the template in the data storage device;
5 and
6   comparing repetitive motions of the selected
7 individual against the motion template to determine at
8 least one delta between the motion template and the
9 executed repetitive motion.

1   7.   The method of Claim 1 wherein the plurality of
2 stations include at least two stations geographically
3 separated from each other.

1   8.   The method of Claim 1 further comprising:
2   designating for a selected individual a model motion
3 executed by the individual at a first station at a first

4   location to be a motion template for the selected

5   individual;

6   recording the motion template in the data storage

7   device;

8   executing a repetitive motion by the selected

9   individual at a second station at a second location

10 separated from the first station at the first location;

11 and

12   comparing executed repetitive motions of the

13 selected individual at the second station at the second

14 location against the motion template to determine at

15 least one delta between the motion template and the

16 executed repetitive motion.

1   9.   The method of Claim 1 further comprising:

2   designating for a selected individual a model motion

3   to be a motion template for the selected individual;

4   recording the motion template in the data storage

5   device;

6   comparing a executed repetitive motion of the

7   selected individual against the motion template to

8   determine at least one delta between the motion template

9   and the executed repetitive motion; and

10   providing feedback describing the at least one delta

11 to the selected individual.

1   10. The method of Claim 1 further comprising:

2   designating for a selected individual a model motion

3   to be a motion template for the selected individual;

4   recording the motion template in the data storage

5   device;

6   comparing an executed repetitive motion of the
7   selected individual against the motion template to
8   determine at least one delta between the motion template
9   and the executed repetitive motion;
10   developing an individual feedback profile; and
11   providing feedback in accordance with the individual
12   feedback profile describing the at least one delta to the
13   selected individual.

1   11. The method of Claim 1 further comprising:
2   designating for a selected individual a model motion
3   to be a motion template for the selected individual;
4   recording the motion template in the data storage
5   device;
6   comparing an executed repetitive motion of the
7   selected individual against the motion template to
8   determine at least one delta between the motion template
9   and the executed repetitive motion;
10   developing an individual feedback profile indicating
11   individual preference for the presence or absence of at
12   least one of positive feedback, negative feedback, visual
13   feedback, audible feedback, verbal feedback, one or more
14   selected aspects of executed repetitive motion, and time
15   of the executed repetitive motion; and
16   providing feedback in accordance with the individual
17   feedback profile describing the at least one delta to the
18   selected individual.

1   12.   The method of Claim 1 further comprising
2 determining a monetary amount to pay to an instructor
3 each time an individual instructed by the instructor
4 practices the motion without the instructor.

1   13.   The method of Claim 1 further comprising
2 compiling data from the plurality of individuals to
3 generate statistical data usable to manufacturers of
4 equipment and apparel used when executing the motions in
5 a selected sport.

1   14.   The method of Claim 1 further comprising
2 compiling data from the plurality of individuals to
3 generate statistical data usable by manufacturers of at
4 least one of golf balls, golf shoes, golf clubs, golfing
5 apparel, golf grips, golf gloves, and golf teaching
6 apparatuses used for executing the motions, and wherein
7 the statistical data is accountable for individual
8 handicaps, including slices.

1   15.   The method of Claim 1 further comprising:
2 compiling data from the plurality of individuals to
3 generate statistical data usable by manufacturers of
4 equipment and apparel used when executing the motions in
5 a selected sport, and wherein the statistical data is
6 accountable for individual handicaps;
7 compiling data for a particular individual to
8 generate statistical data usable by the particular
9 individual, and wherein the statistical data is

10 accountable for handicaps of the particular individual;

11 and

12   generating a recommendation of what equipment and

13 apparel the particular individual should purchase based

14 on statistical data generated for the particular

15 individual and for the statistical data generated for the

16 plurality of individuals.

1   16. The method of Claim 1 further comprising:

2   compiling data from the plurality of individuals to

3 generate statistical data usable by manufacturers of at

4 least one of golf balls, golf shoes, golf clubs, golfing

5 apparel, golf grips, golf gloves, and golf teaching

6 apparatuses used for executing the motions, and wherein

7 the statistical data is accountable for individual

8 handicaps;

9   compiling data for a particular individual to

10 generate statistical data usable by the particular

11 individual, and wherein the statistical data is

12 accountable for handicaps of the particular individual;

13 and

14   generating a recommendation of what golf balls, golf

15 shoes, golf clubs, golfing apparel, golf grips, golf

16 gloves, and golf teaching apparatuses the particular

17 individual should purchase based on statistical data

18 generated for the particular individual and for the

19 statistical data generated for the plurality of

20 individuals.

1   17. The method of Claim 1 wherein the repetitive

2 motion is at least one of a golf swing, a basketball

3 shot, a baseball bat swing, a tennis swing, a bowling

4 ball swing, a baseball pitch, a gymnastic exercise, and

5 figure skating.

1   18. The method of Claim 1 for conducting a virtual

2 tournament between individuals of a selected portion of

3 the plurality of individuals, the method further

4 comprising:

5   selecting for each individual of the selected

6 portion of the plurality of individuals data describing

7 at least one motion, the data including performance

8 results of the at least one motion;

9   comparing for each individual of the selected

10 portion of the plurality of individuals the data

11 including performance results of the at least one motion

12 to determine which individual has the best performance

13 results from the at least one respective motion; and

14   identifying the individual of the selected portion

15 of the plurality of individuals having the best

16 performance results of the at least one respective motion

17 as the winner of the virtual tournament between

18 individuals of a selected portion of the plurality of

19 individuals.

1   19. The method of Claim 1 for conducting a virtual

2 tournament between individuals of a selected portion of

3 the plurality of individuals, the method further

4 comprising:

5   selecting for each individual of the selected
6 portion of the plurality of individuals data describing
7 at least one motion, the data including performance
8 results of the at least one motion;

9   comparing for each individual of the selected
10 portion of the plurality of individuals the data
11 including performance results of the at least one motion
12 to determine which individual has the best performance
13 results from the at least one respective motion;

14   identifying the individual of the selected portion
15 of the plurality of individuals having the best
16 performance results of the at least one respective motion
17 as the winner of the virtual tournament between
18 individuals of a selected portion of the plurality of
19 individuals; and

20   simulating an actual environment where the
21 repetitive motion is executed.

1   20. The method of Claim 1 for managing a
2 competition to determine which individual of a selected
3 portion of the plurality of individuals has improved the
4 most, the method further comprising:

5   designating for each individual of the selected
6 portion of the plurality of individuals a respective
7 model motion to be a respective motion template;

8   comparing at a first point in time for each
9 individual of the selected portion of the plurality of
10 individuals at least one respective first executed
11 repetitive motion against a respective motion template to
12 determine at least one first respective delta between the

13 respective motion template and the respective first
14 executed repetitive motion;

15   comparing at a second point in time for each
16 individual of the selected portion of the plurality of
17 individuals at least one respective second executed
18 repetitive motion against a respective motion template to
19 determine at least one second respective delta between
20 the respective motion template and the respective
21 executed repetitive motion;

22   determining for each individual of the selected
23 portion of the plurality of individuals the respective
24 decrease from the respective first delta to the
25 respective second delta; and

26   identifying the individual of the selected portion
27 of the plurality of individuals having the maximum
28 decrease as the winner of the competition to determine
29 which individual of the selected portion of the plurality
30 of individuals has improved the most.

1   21. The method of Claim 1 for managing a
2 competition to determine which individual of a selected
3 portion of the plurality of individuals has been most
4 consistent in practicing repetitive motions, the method
5 further comprising:

6   designating for each individual of the selected
7 portion of the plurality of individuals a respective
8 model motion to be a respective motion template;

9   comparing at each of a plurality of points in time
10 for each individual of the selected portion of the
11 plurality of individuals at least one respective executed
12 repetitive motion against a respective motion template to

13   determine at least one respective delta between the

14   respective motion template and the respective executed

15   repetitive motion, thereby establishing a sequence of

16   deltas for each individual of the selected portion of the

17   plurality of individuals;

18   determining for each individual of the selected

19   portion of the plurality of individuals a respective

20   variance of respective deltas; and

21   identifying the individual of the selected portion

22   of the plurality of individuals having the least variance

23   as the winner of the competition to determine which

24   individual of a selected portion of the plurality of

25   individuals has been most consistent in practicing

26   repetitive motions.

1   22. The method of Claim 1 for managing a

2   competition to determine which individual of a selected

3   portion of the plurality of individuals is practicing

4   closest to a respective motion template, the method

5   further comprising:

6   designating for each individual of the selected

7   portion of the plurality of individuals a respective

8   model motion to be a respective motion template;

9   comparing for each individual of the selected

10   portion of the plurality of individuals at least one

11   respective executed repetitive motion against a

12   respective motion template to determine at least one

13   respective delta between the respective motion template

14   and the respective executed repetitive motion; and

15   identifying the individual of the selected portion

16   of the plurality of individuals having the least delta as

17   the   winner   of   the   competition   to   determine   which

18   individual is practicing closest to a respective motion

19   template.

1 23. A programmed digital computer for managing data
2 describing each of a plurality of repetitive motions
3 executed by a plurality of individuals at a plurality of
4 repetitive motion stations located at a plurality of
5 locations, the programmed digital switch including a
6 computer program comprising:
7 computer program code for receiving the data
8 describing each repetitive motion of each of the
9 plurality of individuals at each of the plurality of
10 repetitive motion station at each of the plurality of
11 locations;
12 computer program code for recording the data in a
13 data storage device connected to each of the plurality of
14 repetitive motion stations located at each of the
15 plurality of locations;
16 computer program code for receiving through a
17 network from a requester a request for at least one
18 portion of the data; and
19 computer program code for transmitting through the
20 network to the requester the at least one portion of the
21 data.

1 24. The computer of Claim 23 wherein the requester
2 is one of the individual who executed the repetitive
3 motions, an instructor responsible for instructing the
4 individual who executed the repetitive motions, and
5 another individual who has permission to access the data.

1   25. The computer of Claim 23 wherein the network
2 comprises at least one of the Internet, an intranet, a
3 local area network (LAN), a wide area network (WAN), a T1
4 line, and satellite communication.

1   26. The computer of Claim 23 wherein requester is
2 the individual who executed the repetitive motions, the
3 network comprises at least one of the Internet, an
4 intranet, a local area network (LAN), a wide area network
5 (WAN), a T1 line, and satellite communication, and the
6 request is generated by the individual from a computer
7 terminal located at the individual's residential home.

1   27. The computer of Claim 23 wherein the repetitive
2 motions include at least one of a previous motion
3 executed by the individual, a motion template executed by
4 the individual, and a motion generated by an expert.

1   28. The computer of Claim 23 further comprising:
2 computer program code for designating for a selected
3 individual a model motion to be a motion template for the
4 selected individual;
5 computer program code for recording the template in
6 the data storage device; and
7 computer program code for comparing executed
8 repetitive motion of the selected individual against the
9 motion template to determine at least one delta between
10 the motion template and the executed repetitive motion.

1   29.   The computer of Claim 23 wherein the plurality

2 of stations include at least two stations geographically

3 separated from each other.

1   30.   The computer of Claim 23 further comprising:

2   computer program code for designating for a selected

3 individual a model motion executed by the individual at a

4 first station at a first location to be a motion template

5 for the selected individual;

6   computer program code for recording the motion

7 template in the data storage device;

8   computer program code for executing a repetitive

9 motion by the first individual at a second station at a

10 second location separated from the first station at the

11 first location; and

12   computer program code for comparing executed

13 repetitive motion of the selected individual at the

14 second station at the second location against the motion

15 template to determine at least one delta between the

16 motion template and the executed repetitive motion.

1   31.   The computer of Claim 23 further comprising:

2   computer program code for designating for a selected

3 individual a model motion to be a motion template for the

4 selected individual;

5   computer program code for recording the motion

6 template in the data storage device;

7   computer program code for comparing an executed

8 repetitive motion of the selected individual against the

9 motion template to determine at least one delta between

10   the motion template and the executed repetitive motion;

11   and

12   computer program code for providing feedback

13   describing the at least one delta to the selected

14   individual.

1   32.   The computer of Claim 23 further comprising:

2   computer program code for designating for a selected

3   individual a model motion to be a motion template for the

4   selected individual;

5   computer program code for recording the motion

6   template in the data storage device;

7   computer program code for comparing an executed

8   repetitive motion of the selected individual against the

9   motion template to determine at least one delta between

10   the motion template and the executed repetitive motion;

11   computer program code for developing an individual

12   feedback profile; and

13   computer program code for providing feedback in

14   accordance with the individual feedback profile

15   describing the at least one delta to the selected

16   individual.

1   33.   The computer of Claim 23 further comprising:

2   computer program code for designating for a selected

3   individual a model motion to be a motion template for the

4   selected individual;

5   computer program code for recording the motion

6   template in the data storage device;

7   computer program code for comparing an executed

8   repetitive motion of the selected individual against the

9   motion template to determine at least one delta between

10   the motion template and the executed repetitive motion;

11   computer program code for developing an individual

12   feedback profile indicating individual preference for the

13   presence or absence of at least one of positive feedback,

14   negative feedback, visual feedback, audible feedback,

15   verbal feedback, one or more selected aspects of the

16   executed repetitive motion, and time of the executed

17   repetitive motion; and

18   computer program code for providing feedback in

19   accordance with the individual feedback profile

20   describing the at least one delta to the selected

21   individual.

1   34. The computer of Claim 23 further comprising

2   computer program code for determining a monetary amount

3   to pay to an instructor each time an individual

4   instructed by the instructor practices the motion without

5   the instructor.

1   35. The computer of Claim 23 further comprising

2   computer program code for compiling data from the

3   plurality of individuals to generate statistical data

4   usable by manufacturers of equipment and apparel used

5   when executing the motions in a selected sport.

1   36. The computer of Claim 23 further comprising

2   computer program code for compiling data from the

3   plurality of individuals to generate statistical data

4   usable by manufacturers of at least one of golf balls,

5   golf shoes, golf clubs, golfing apparel, golf grips, golf

6   gloves, and golf teaching apparatuses used for executing

7   the motions, and wherein the statistical data is

8   accountable for individual handicaps, including slices.

1   37. The computer of Claim 23 further comprising:

2   computer program code for compiling data from the

3   plurality of individuals to generate statistical data

4   usable by manufacturers of equipment and apparel used

5   when executing the motions in a selected sport, and

6   wherein the statistical data is accountable for

7   individual handicaps;

8   computer program code for compiling data for a

9   particular individual to generate statistical data usable

10   by the particular individual, and wherein the statistical

11   data is accountable for handicaps of the particular

12   individual; and

13   computer program code for generating a

14   recommendation of what equipment and apparel the

15   particular individual should purchase based on

16   statistical data generated for the particular individual

17   and for the statistical data generated for the plurality

18   of individuals.

1   38. The computer of Claim 23 further comprising:

2   computer program code for compiling data from the
3   plurality of individuals to generate statistical data
4   usable by manufacturers of at least one of golf balls,
5   golf shoes, golf clubs, golfing apparel, golf grips, golf
6   gloves, and golf teaching apparatuses used for executing
7   the motions, and wherein the statistical data is
8   accountable for individual handicaps;

9   computer program code for compiling data for a
10   particular individual to generate statistical data usable
11   by the particular individual, and wherein the statistical
12   data is accountable for handicaps of the particular
13   individual; and

14   computer program code for generating a
15   recommendation of what golf balls, golf shoes, golf
16   clubs, golfing apparel, golf grips, golf gloves, and golf
17   teaching apparatuses the particular individual should
18   purchase based on statistical data generated for the
19   particular individual and for the statistical data
20   generated for the plurality of individuals.

1   39. The computer of Claim 23 wherein the repetitive
2   motion is at least one of a golf swing, a basketball
3   shot, a baseball bat swing, a tennis swing, a bowling
4   ball swing, a baseball pitch, a gymnastic exercise, and
5   figure skating.

1   40. The computer of Claim 23 for conducting a
2   virtual tournament between individuals of a selected
3   portion of the plurality of individuals, the computer
4   further comprising:

5   computer program code for selecting for each
6 individual of the selected portion of the plurality of
7 individuals data describing at least one motion, the data
8 including performance results of the at least one motion;
9   computer program code for comparing for each
10 individual of the selected portion of the plurality of
11 individuals the data including performance results of the
12 at least one motion to determine which individual of the
13 selected portion of the plurality of individuals has the
14 best performance results of the at least one respective
15 motion; and
16   computer program code for identifying the individual
17 of the selected portion of the plurality of individuals
18 having the best performance results of the at least one
19 respective motion as the winner of the virtual tournament
20 between individuals of a selected portion of the
21 plurality of individuals.

1   41. The computer of Claim 23 for managing a
2 competition to determine which individual of a selected
3 portion of the plurality of individuals has improved the
4 most, the computer further comprising:
5   computer program code for designating for each
6 individual of the selected portion of the plurality of
7 individuals a respective model motion to be a respective
8 motion template;
9   computer program code for comparing at a first point
10 in time for each individual of the selected portion of
11 the plurality of individuals at least one respective
12 first executed repetitive motion against a respective
13 motion template to determine at least one first

14 respective delta between the respective motion template
15 and the respective first executed repetitive motion;

16   computer program code for comparing at a second
17 point in time for each individual of the selected portion
18 of the plurality of individuals at least one respective
19 second executed repetitive motion against a respective
20 motion template to determine at least one second
21 respective delta between the respective motion template
22 and the respective executed repetitive motion;

23   computer program code for determining for each
24 individual of the selected portion of the plurality of
25 individuals the respective decrease from the respective
26 first delta to the respective second delta; and

27   computer program code for identifying the individual
28 of the selected portion of the plurality of individuals
29 having the maximum decrease as the winner of the
30 competition to determine which individual of the selected
31 portion of the plurality of individuals has improved the
32 most.

1   42. The computer of Claim 23 for managing a
2 competition to determine which individual of a selected
3 portion of the plurality of individuals has been most
4 consistent in practicing repetitive motions, the computer
5 further comprising:

6   computer program code for designating for each
7 individual of the selected portion of the plurality of
8 individuals a respective model motion to be a respective
9 motion template;

10   computer program code for comparing at each of a
11 plurality of points in time for each individual of the

12 selected portion of the plurality of individuals at least
13 one respective executed repetitive motion against a
14 respective motion template to determine at least one
15 respective delta between the respective motion template
16 and the respective executed repetitive motion, thereby
17 establishing a sequence of deltas for each individual of
18 the selected portion of the plurality of individuals;

19   computer program code for determining for each
20 individual of the selected portion of the plurality of
21 individuals a respective variance of respective deltas;
22 and

23   computer program code for identifying the individual
24 of the selected portion of the plurality of individuals
25 having the least variance as the winner of the
26 competition to determine which individual of a selected
27 portion of the plurality of individuals has been most
28 consistent in practicing repetitive motions.

1   43. The computer of Claim 23 for managing a
2   competition to determine which individual of a selected
3   portion of the plurality of individuals is practicing
4   closest to a respective motion template, the computer
5   further comprising:

6   computer program code for designating for each
7   individual of the selected portion of the plurality of
8   individuals a respective model motion to be a respective
9   motion template;

10   computer program code for comparing for each
11 individual of the selected portion of the plurality of
12 individuals at least one respective executed repetitive
13 motion against a respective motion template to determine

14   at least one respective delta between the respective

15   motion template and the respective executed repetitive

16   motion to determine which individual of the selected

17   portion of the plurality of individuals has the least

18   delta; and

19   computer program code for identifying the individual

20   of the selected portion of the plurality of individuals

21   having the least delta as the winner of the competition

22   to determine which individual is practicing closest to a

23   respective motion template.

1   44. A computer program product for managing data
2 describing each of a plurality of repetitive motions
3 executed by a plurality of individuals at a plurality of
4 repetitive motion stations located at a plurality of
5 locations, the computer program product having a medium
6 with a computer program embodied thereon, the computer
7 program comprising:
8   computer program code for receiving the data
9 describing each repetitive motion of each of the
10 plurality of individuals at each of the plurality of
11 repetitive motion station at each of the plurality of
12 locations;
13   computer program code for recording the data in a
14 data storage device connected to each of the plurality of
15 repetitive motion stations located at each of the
16 plurality of locations;
17   computer program code for receiving through a
18 network from a requester a request for at least one
19 portion of the data; and
20   computer program code for transmitting through the
21 network to the requester the at least one portion of the
22 data. .

1   45. The computer program product of Claim 44
2 wherein the requester is one of the individual who
3 executed the repetitive motions, an instructor
4 responsible for instructing the individual who executed
5 the repetitive motions, and another individual who has
6 permission to access the data.

1   46.   The   computer   program   product   of   Claim   44

2   wherein   the   network   comprises   at   least   one   of   the

3   Internet, an intranet, a local area network (LAN), a wide

4   area   network   (WAN),   a   T1   line,   and   satellite

5   communication.

1   47.   The   computer   program   product   of   Claim   44

2   wherein   requester   is   the   individual   who   executed   the

3   repetitive motions, the network comprises at least one of

4   the Internet, an intranet, a local area network (LAN), a

5   wide   area   network   (WAN),   a   T1   line,   and   satellite

6   communication,   and   the   request   is   generated   by   the

7   individual   from   a   computer   terminal   located   at   the

8   individual's residential home.

1   48.   The   computer   program   product   of   Claim   44

2   wherein the repetitive motions include at least one of a

3   previous   motion   executed   by   the   individual,   a   motion

4   template   executed   by   the   individual,   and   a   motion

5   generated by an expert.

1   49.   The   computer   program   product   of   Claim   44

2   further comprising:

3   computer program code for designating for a selected

4   individual a model motion to be a motion template for the

5   selected individual;

6   computer program code for recording the template in

7   the data storage device; and

8   computer   program   code   for   comparing   executed

9   repetitive motions of the selected individual against the

10 motion template to determine at least one delta between
11 the motion template and the executed repetitive motion.

1   50.   The   computer   program   product   of   Claim   44
2 wherein the plurality of stations include at least two
3 stations geographically separated from each other.

1   51.   The   computer   program   product   of   Claim   44
2 further comprising:
3   computer program code for designating for a selected
4 individual a model motion executed by the individual at a
5 first station at a first location to be a motion template
6 for the selected individual;
7   computer   program   code   for   recording   the   motion
8 template in the data storage device;
9   computer   program   code   for   executing   a   repetitive
10 motion by the first individual at a second station at a
11 second location separated from the first station at the
12 first location; and
13   computer   program   code   for   comparing   executed
14 repetitive   motions   of   the   selected   individual   at   the
15 second station at the second location against the motion
16 template   to   determine   at   least   one   delta   between   the
17 motion template and the executed repetitive motion.

1   52.   The   computer   program   product   of   Claim   44
2 further comprising:
3   computer program code for designating for a selected
4 individual a model motion to be a motion template for the
5 selected individual;

6   computer program code for recording the motion

7   template in the data storage device;

8   computer program code for comparing an executed

9   repetitive motion of the selected individual against the

10   motion template to determine at least one delta between

11   the motion template and the executed repetitive motion;

12   and

13   computer program code for providing feedback

14   describing the at least one delta to the selected

15   individual.

1   53. The computer program product of Claim 44

2   further comprising:

3   computer program code for designating for a selected

4   individual a model motion to be a motion template for the

5   selected individual;

6   computer program code for recording the motion

7   template in the data storage device;

8   computer program code for comparing an executed

9   repetitive motion of the selected individual against the

10   motion template to determine at least one delta between

11   the motion template and the executed repetitive motion;

12   computer program code for developing an individual

13   feedback profile; and

14   computer program code for providing feedback in

15   accordance with the individual feedback profile

16   describing the at least one delta to the selected

17   individual.

1   54. The computer program product of Claim 44

2   further comprising:

3 computer program code for designating for a selected
4 individual a model motion to be a motion template for the
5 selected individual;

6 computer program code for recording the motion
7 template in the data storage device;

8 computer program code for comparing an executed
9 repetitive motion of the selected individual against the
10 motion template to determine at least one delta between
11 the motion template and the executed repetitive motion;

12 computer program code for developing an individual
13 feedback profile indicating individual preference for the
14 presence or absence of at least one of positive feedback,
15 negative feedback, visual feedback, audible feedback,
16 verbal feedback, one or more selected aspects of the
17 executed repetitive motion, and time of the executed
18 repetitive motion; and

19 computer program code for providing feedback in
20 accordance with the individual feedback profile
21 describing the at least one delta to the selected
22 individual.

1 55. The computer program product of Claim 44
2 further comprising computer program code for determining
3 a monetary amount to pay to an instructor each time an
4 individual instructed by the instructor practices the
5 motion without the instructor.

1   56. The computer program product of Claim 44
2 further comprising computer program code for compiling
3 data from the plurality of individuals to generate
4 statistical data usable by manufacturers of equipment and
5 apparel used when executing the motions in a selected
6 sport.

1   ´ 57. The computer program product of Claim 44
2 further comprising computer program code for compiling
3 data from the plurality of individuals to generate
4 statistical data usable by manufacturers of at least one
5 of golf balls, golf shoes, golf clubs, golfing apparel,
6 golf grips, golf gloves, and golf teaching apparatuses
7 used for executing the motions, and wherein the
8 statistical data is accountable for individual handicaps,
9 including slices.

1   58. The computer program product of Claim 44
2 further comprising:
3   computer program code for compiling data from the
4 plurality of individuals to generate statistical data
5 usable by manufacturers of equipment and apparel used
6 when executing the motions in a selected sport, and
7 wherein ´ the statistical data is accountable for
8 individual handicaps;
9   computer program code for compiling data for a
10 particular individual to generate statistical data usable
11 by the particular individual, and wherein the statistical
12 data is accountable for handicaps of the particular
13 individual; and

14   computer program code for generating a
15 recommendation of what equipment and apparel the
16 particular individual should purchase based on
17 statistical data generated for the particular individual
18 and for the statistical data generated for the plurality
19 of individuals.

1   59. The computer program product of Claim 44
2 further comprising:

3   computer program code for compiling data from the
4 plurality of individuals to generate statistical data
5 usable by manufacturers of at least one of golf balls,
6 golf shoes, golf clubs, golfing apparel, golf grips, golf
7 gloves, and golf teaching apparatuses used for executing
8 the motions, and wherein the statistical data is
9 accountable for individual handicaps;

10   computer program code for compiling data for a
11 particular individual to generate statistical data usable
12 by the particular individual, and wherein the statistical
13 data is accountable for handicaps of the particular
14 individual; and

15   computer program code for generating a
16 recommendation of what golf balls, golf shoes, and golf
17 clubs golfing apparel, golf grips, golf gloves, and golf
18 teaching apparatuses the particular individual should
19 purchase based on statistical data generated for the
20 particular individual and for the statistical data
21 generated for the plurality of individuals.

1   60. The computer program product of Claim 44

2   wherein the repetitive motion is at least one of a golf

3   swing, a basketball shot, a baseball bat swing, a tennis

4   swing, a bowling ball swing, a baseball pitch, a

5   gymnastic exercise, and figure skating.

1   61. The computer program product of Claim 44 for

2   conducting a virtual tournament between individuals of a

3   selected portion of the plurality of individuals, the

4   computer program product further comprising:

5   computer program code for selecting for each

6   individual of the selected portion of the plurality of

7   individuals data describing at least one motion, the data

8   including performance results of the at least one motion;

9   computer program code for comparing for each

10   individual of the selected portion of the plurality of

11   individuals the data including performance results of the

12   at least one motion to determine which individual of the

13   selected portion of the plurality of individuals has the

14   best performance results of the at least one respective

15   motion; and

16   computer program code for identifying the individual

17   of the selected portion of the plurality of individuals

18   having the best performance results of the at least one

19   respective motion as the winner of the virtual tournament

20   between individuals of a selected portion of the

21   plurality of individuals.

1   62.   The computer program product of Claim 44 for

2 managing a competition to determine which individual of a

3 selected portion of the plurality of individuals has

4 improved the most, the computer program product further

5 comprising:

6   computer program code for designating for each

7 individual of the selected portion of the plurality of

8 individuals a respective model motion to be a respective

9 motion template;

10   computer program code for comparing at a first point

11 in time for each individual of the selected portion of

12 the plurality of individuals at least one respective

13 first executed repetitive motion against a respective

14 motion template to determine at least one first

15 respective delta between the respective motion template

16 and the respective first executed repetitive motion;

17   computer program code for comparing at a second

18 point in time for each individual of the selected portion

19 of the plurality of individuals at least one respective

20 second executed repetitive motion against a respective

21 motion template to determine at least one second

22 respective delta between the respective motion template

23 and the respective executed repetitive motion;

24   computer program code for determining for each

25 individual of the selected portion of the plurality of

26 individuals the respective decrease from the respective

27 first delta to the respective second delta; and

28   computer program code for identifying the individual

29 of the selected portion of the plurality of individuals

30 having the maximum decrease as the winner of the

31 competition to determine which individual of the selected

32 portion of the plurality of individuals has improved the

33 most.

1   63. The computer program product of Claim 44 for

2 managing a competition to determine which individual of a

3 selected portion of the plurality of individuals has been

4 most consistent in practicing repetitive motions, the

5 computer program product further comprising:

6   computer program code for designating for each

7 individual of the selected portion of the plurality of

8 individuals a respective model motion to be a respective

9 motion template;

10   computer program code for comparing at each of a

11 plurality of points in time for each individual of the

12 selected portion of the plurality of individuals at least

13 one respective executed repetitive motion against a

14 respective motion template to determine at least one

15 respective delta between the respective motion template

16 and the respective executed repetitive motion, thereby

17 establishing a sequence of deltas for each individual of

18 the selected portion of the plurality of individuals;

19   computer program code for determining for each

20 individual of the selected portion of the plurality of

21 individuals a respective variance of respective deltas;

22 and

23   computer program code for identifying the individual

24 of the selected portion of the plurality of individuals

25 having the least variance as the winner of the

26 competition to determine which individual of a selected

27   portion of the plurality of individuals has been most

28   consistent in practicing repetitive motions.

1   64. The computer program product of Claim 44 for

2   managing a competition to determine which individual of a

3   selected portion of the plurality of individuals is

4   practicing closest to a respective motion template, the

5   computer program product further comprising:

6   computer program code for designating for each

7   individual of the selected portion of the plurality of

8   individuals a respective model motion to be a respective

9   motion template;

10   computer program code for comparing for each

11   individual of the selected portion of the plurality of

12   individuals at least one respective executed repetitive

13   motion against a respective motion template to determine

14   at least one respective delta between the respective

15   motion template and the respective executed repetitive

16   motion to determine which individual of the selected

17   portion of the plurality of individuals has the least

18   delta; and

19   computer program code for identifying the individual

20   of the selected portion of the plurality of individuals

21   having the least delta as the winner of the competition

22   to determine which individual is practicing closest to a

23   respective motion template.

1   65. A system for managing repetitive motion data

2 describing each of a plurality of repetitive motions

3 executed by a plurality of individuals at a plurality of

4 repetitive motion stations located at a plurality of

5 locations, the system comprising:

6   a communications network;

7   a data processing system connected to the network;

8   a data storage device connected to the data

9 processing system, the data storage device being

10 configured for storing data received from, and retrieving

11 data requested by, the data processing system;

12   at least one repetitive motion station connected to

13 the network and configured for generating and

14 transmitting repetitive motion data via the network to

15 the data processing system configured for processing the

16 data and storing the data in the storage device; and

17   at least one remote terminal connected to the

18 network and configured for sending messages via the

19 network to the data processing system for the retrieval

20 of repetitive motion data from the data storage device.

1   66. The system of Claim 65 wherein the requester is

2 one of the individual who executed the repetitive

3 motions, an instructor responsible for instructing the

4 individual who executed the repetitive motions, and

5 another individual who has permission to access the data.

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1      67.  The  system  of  Claim  65  wherein  the  network
2   comprises  at  least  one  of  the  Internet,  an  intranet,  a
3   local  area  network  (LAN),  a  wide  area  network  (WAN),  a  T1
4   line,  and  satellite  communication.


1      68.  The  system  of  Claim  65  wherein  the  at  least  one
2   remote  terminal  is  a  computer  terminal  located  at  a
3   residential  home.


1      69.  The  system  of  Claim  65  wherein  the  repetitive
2   motions  include  at  least  one  of  a  previous  motion
3   executed  by  the  individual,  a  motion  template  executed  by
4   the  individual,  and  a  motion  generated  by  an  expert.


1      70.  The  system  of  Claim  65,  wherein  the  data
2   processing  system  further  comprises  memory  comprising:
3      computer  program  code  for  designating  for  a  selected
4   individual  a  model  motion  to  be  a  motion  template  for  the
5   selected  individual;
6      computer  program  code  for  recording  the  template  in
7   the  data  storage  device;  and
8      computer  program  code  for  comparing  executed
9   repetitive  motions  of  the  selected  individual  against  the
10  motion  template  to  determine  at  least  one  delta  between
11  the  motion  template  and  the  executed  repetitive  motion.


1      71.  The  system  of  Claim  65  wherein  the  plurality  of
2   stations  include  at  least  two  stations  geographically
3   separated  from  each  other.
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1   72. The system of Claim 65, wherein the data

2   processing system further comprises memory comprising:

3   computer program code for designating for a selected

4   individual a model motion executed by the individual at a

5   first station at a first location to be a motion template

6   for the selected individual;

7   computer program code for recording the motion

8   template in the data storage device;

9   computer program code for executing a repetitive

10   motion by the first individual at a second station at a

11   second location separated from the first station at the

12   first location; and

13   computer program code for comparing executed

14   repetitive motions of the selected individual at the

15   second station at the second location against the motion

16   template to determine at least one delta between the

17   motion template and the executed repetitive motion.

1   73. The system of Claim 65, wherein the data

2   processing system further comprises memory comprising:

3   computer program code for designating for a selected

4   individual a model motion to be a motion template for the

5   selected individual;

6   computer program code for recording the motion

7   template in the data storage device;

8   computer program code for comparing an executed

9   repetitive motion of the selected individual against the

10   motion template to determine at least one delta between

11   the motion template and the executed repetitive motion;

12   and

13   computer program code for providing feedback
14   describing the at least one delta to the selected
15   individual.

1   74. The system of Claim 65, wherein the data
2   processing system further comprises memory comprising:
3   computer program code for designating for a selected
4   individual a model motion to be a motion template for the
5   selected individual;
6   computer program code for recording the motion
7   template in the data storage device;
8   computer program code for comparing an executed
9   repetitive motion of the selected individual against the
10   motion template to determine at least one delta between
11   the motion template and the executed repetitive motion;
12   computer program code for developing an individual
13   feedback profile; and
14   computer program code for providing feedback in
15   accordance with the individual feedback profile
16   describing the at least one delta to the selected
17   individual.

1   75. The system of Claim 65, wherein the data
2   processing system further comprises memory comprising:
3   computer program code for designating for a selected
4   individual a model motion to be a motion template for the
5   selected individual;
6   computer program code for recording the motion
7   template in the data storage device;
8   computer program code for comparing an executed
9   repetitive motion of the selected individual against the

10 motion template to determine at least one delta between

11 the motion template and the executed repetitive motion;

12   computer program code for developing an individual

13 feedback profile indicating individual preference for the

14 presence or absence of at least one of positive feedback,

15 negative feedback, visual feedback, audible feedback,

16 verbal feedback, one or more selected aspects of the

17 executed repetitive motion, and time of the executed

18 repetitive motion; and

19   computer program code for providing feedback in

20 accordance with the individual feedback profile

21 describing the at least one delta to the selected

22 individual.

1   76. The system of Claim 65, wherein the data

2 processing system further comprises memory comprising

3 computer program code for determining a monetary amount

4 to pay to an instructor each time an individual

5 instructed by the instructor practices the motion without

6 the instructor.

1   77. The system of Claim 65, wherein the data

2 processing system further comprises memory comprising

3 computer program code for compiling data from the

4 plurality of individuals to generate statistical data

5 usable by manufacturers of equipment and apparel used

6 when executing the motions in a selected sport.

1   78. The system of Claim 65, wherein the data
2 processing system further comprises memory comprising
3 computer program code for compiling data from the
4 plurality of individuals to generate statistical data
5 usable by manufacturers of at least one of golf balls,
6 golf shoes, golf clubs, golfing apparel, golf grips, golf
7 gloves, golf teaching apparatuses used for executing the
8 motions, and wherein the statistical data is accountable
9 for individual handicaps, including slices.

1   79. The system of Claim 65, wherein the data
2 processing system further comprises memory comprising:
3   computer program code for compiling data from the
4 plurality of individuals to generate statistical data
5 usable by manufacturers of equipment and apparel used
6 when executing the motions in a selected sport, and
7 wherein the statistical data is accountable for
8 individual handicaps;
9   computer program code for compiling data for a
10 particular individual to generate statistical data usable
11 by the particular individual, and wherein the statistical
12 data is accountable for handicaps of the particular
13 individual; and
14   computer program code for generating a
15 recommendation of what equipment the particular
16 individual should purchase based on statistical data
17 generated for the particular individual and for the
18 statistical data generated for the plurality of
19 individuals.

1   80. The system of Claim 65, wherein the data
2   processing system further comprises memory comprising:
3   computer program code for compiling data from the
4   plurality of individuals to generate statistical data
5   usable by manufacturers of at least one of golf balls,
6   golf shoes, golf clubs, golfing apparel, golf grips, golf
7   gloves, and golf teaching apparatuses used for executing
8   the motions, and wherein the statistical data is
9   accountable for individual handicaps;
10   computer program code for compiling data for a
11   particular individual to generate statistical data usable
12   by the particular individual, and wherein the statistical
13   data is accountable for handicaps of the particular
14   individual; and
15   computer program code for generating a
16   recommendation of what golf balls, golf shoes, golf
17   clubs, golfing apparel, golf grips, golf gloves, and golf
18   teaching apparatuses the particular individual should
19   purchase based on statistical data generated for the
20   particular individual and for the statistical data
21   generated for the plurality of individuals.

1   81. The system of Claim 65 wherein the repetitive
2   motion is at least one of a golf swing, a basketball
3   shot, a baseball bat swing, a tennis swing, a bowling
4   ball swing, a baseball pitch, a gymnastic exercise, and
5   figure skating.

1   82. The system of Claim 65, wherein the data
2   processing system further comprises memory comprising:

3   computer program code for selecting for each

4   individual of the selected portion of the plurality of

5   individuals data describing at least one motion, the data

6   including performance results of the at least one motion;

7   computer program code for comparing for each

8   individual of the selected portion of the plurality of

9   individuals the data including performance results of the

10 at least one motion to determine which individual of the

11 selected portion of the plurality of individuals has the

12 best performance results of the at least one respective

13 motion; and

14   computer program code for identifying the individual

15 of the selected portion of the plurality of individuals

16 having the best performance results of the at least one

17 respective motion as the winner of the virtual tournament

18 between individuals of a selected portion of the

19 plurality of individuals.

1   83. The system of Claim 65, wherein the data

2 processing system further comprises memory comprising:

3   computer program code for designating for each

4 individual of the selected portion of the plurality of

5 individuals a respective model motion to be a respective

6 motion template;

7   computer program code for comparing at a first point

8 in time for each individual of the selected portion of

9 the plurality of individuals at least one respective

10 first executed repetitive motion against a respective

11 motion template to determine at least one first

12 respective delta between the respective motion template

13 and the respective first executed repetitive motion;

14 computer program code for comparing at a second

15 point in time for each individual of the selected portion

16 of the plurality of individuals at least one respective

17 second executed repetitive motion against a respective

18 motion template to determine at least one second

19 respective delta between the respective motion template

20 and the respective executed repetitive motion;

21 computer program code for determining for each

22 individual of the selected portion of the plurality of

23 individuals the respective decrease from the respective

24 first delta to the respective second delta; and

25 computer program code for identifying the individual

26 of the selected portion of the plurality of individuals

27 having the maximum decrease as the winner of the

28 competition to determine which individual of the selected

29 portion of the plurality of individuals has improved the

30 most.

1 84. The system of Claim 65, wherein the data

2 processing system further comprises memory comprising:

3 computer program code for designating for each

4 individual of the selected portion of the plurality of

5 individuals a respective model motion to be a respective

6 motion template;

7 computer program code for comparing at each of a

8 plurality of points in time for each individual of the

9 selected portion of the plurality of individuals at least

10 one respective executed repetitive motion against a

11 respective motion template to determine at least one

12 respective delta between the respective motion template

13 and the respective executed repetitive motion, thereby

14   establishing a sequence of deltas for each individual of

15   the selected portion of the plurality of individuals;

16   computer program code for determining for each

17   individual of the selected portion of the plurality of

18   individuals a respective variance of respective deltas;

19   and

20   computer program code for identifying the individual

21   of the selected portion of the plurality of individuals

22   having the least variance as the winner of the

23   competition to determine which individual of a selected

24   portion of the plurality of individuals has been most

25   consistent in practicing repetitive motions.

1   85. The system of Claim 65, wherein the data

2   processing system further comprises memory comprising:

3   computer program code for designating for each

4   individual of the selected portion of the plurality of

5   individuals a respective model motion to be a respective

6   motion template;

7   computer program code for comparing for each

8   individual of the selected portion of the plurality of

9   individuals at least one respective executed repetitive

10   motion against a respective motion template to determine

11   at least one respective delta between the respective

12   motion template and the respective executed repetitive

13   motion to determine which individual of the selected

14   portion of the plurality of individuals has the least

15   delta; and

16   computer program code for identifying the individual

17   of the selected portion of the plurality of individuals

18   having the least delta as the winner of the competition

19   to determine which individual is practicing closest to a

20   respective motion template.

1   86. A method for managing data, the method

2   comprising the steps of:

3   monitoring and generating data describing at least

4   one first repetitive motion executed by at least one

5   first individual at at least one first repetitive motion

6   station located at at least one first location;

7   monitoring and generating data describing at least

8   one second repetitive motion executed by at least one

9   second individual at at least one second repetitive

10 motion station located at at least one second location

11 geographically separated from the at least one first

12 location;

13   transmitting the data describing the at least one

14 first and second repetitive motions from the first and

15 second practice bays via a network to a network server

16 computer having a data storage device; and

17   recording the data to the data storage device.